Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method comprising:

defining a predetermined event, the occurrence of the predetermined event to cause a spin-down of a hard disk;

detecting the occurrence of the predetermined event;

in response to the predetermined event,

spinning down the hard disk, and

storing historical performance data of the hard disk on a non-volatile memory unit of a system, the <u>historical performance</u> data including data identifying the predetermined event as a cause of a spin-down of the hard disk and a period of time thereafter before the hard disk was spun up, the <u>historical</u> <u>performance</u> data being available on the memory unit after the system has been rebooted.

- 2. (Original) The method of claim 1, wherein the non-volatile memory unit is a cache for the hard disk.
- 3. (Original) The method of claim 2, wherein the non-volatile memory unit includes a form factor of a Mini Peripheral Component Interconnect Express card.

Application No. 10/749,815 Amendment dated April 12, 2007 Response to Office Action of 1/31/2007

- 4. (Original) The method of claim 1, wherein the non-volatile memory unit includes a Peripheral Component Interconnect Express interface.
- 5. (Original) The method of claim 1, wherein the non-volatile memory unit consists of a thin film electronics memory.
- 6. (Previously Presented) The method of claim 1, further including using the historical performance data to implement a power management policy of the hard disk.
- 7. (Canceled).
- 8. (Currently Amended) A machine readable medium having stored thereon a set of instructions which when executed cause a system to perform a method comprising of:

defining a predetermined event, the occurrence of the predetermined event to cause a spin-down of a hard disk;

detecting the occurrence of the predetermined event;

in response to the predetermined event,

spinning down the hard disk, and

storing historical performance data of the hard disk on a non-volatile memory unit of a system, the <u>historical performance</u> data including data identifying the predetermined event as a cause of a spin-down of the hard disk and

a period of time thereafter before the hard disk was spun up, the <u>historical</u>

<u>performance</u> data being available on the memory unit after the system has been rebooted.

- 9. (Original) The machine readable medium of claim 8, wherein the non-volatile memory unit is a cache for the hard disk.
- 10. (Original) The machine readable medium of claim 9, wherein the non-volatile memory unit includes a form factor of a Mini Peripheral Component Interconnect Express card.
- 11. (Original) The machine readable medium of claim 8, wherein the non-volatile memory unit includes a Peripheral Component Interconnect Express interface.
- 12. (Original) The machine readable medium of claim 8, wherein the non-volatile memory unit consists of a thin film electronics memory.
- 13. (Canceled).
- 14. (Currently Amended) A system comprising of:
 - a processor;
 - a non-volatile cache coupled to the processor; and

Atty. Docket No. 42P18167
07 Examiner WALTER, Craig E.
//31/2007 TC/A.U. 2188

Application No. 10/749,815 Amendment dated April 12, 2007 Response to Office Action of 1/31/2007

a machine readable medium having stored thereon a set of instructions which

when executed cause the system to perform a method comprising of:

defining a predetermined event, the occurrence of the predetermined event to

cause a spin-down of a hard disk;

detecting the occurrence of the predetermined event;

in response to the predetermined event,

spinning down the hard disk, and

storing historical performance data of the hard disk on the non-volatile cache of a

system, the **historical performance** data including data identifying the predetermined

event as a cause of a spin-down of the hard disk and a period of time thereafter before the

hard disk was spun up, the **historical performance** data being available on the non-

volatile cache after the system has been rebooted.

15. (Previously Presented) The system of claim 14, wherein the non-volatile cache is a

cache for the hard disk.

16. (Original) The system of claim 14, wherein the non-volatile cache includes a form

factor of a Mini Peripheral Component Interconnect Express card.

17. (Previously Presented) The system of claim 14, wherein the non-volatile cache

includes a Peripheral Component Interconnect Express interface.

-6-

Application No. 10/749,815 Amendment dated April 12, 2007 Response to Office Action of 1/31/2007 Atty. Docket No. 42P18167 Examiner WALTER, Craig E. TC/A.U. 2188

18. (Previously Presented) The system of claim 14, wherein the non-volatile cache consists of a thin film electronics memory.

19. (Canceled).